Senapathi Venkatramanan

List of Publications by Year
in descending order

104 papers	2,611 citations	201674 27 h-index	243625 44 g-index
110 all docs	110 docs citations	110 times ranked	2067 citing authors

#	ARTICLE	IF	CITATIONS
1	Hazardous microplastic characteristics and its role as a vector of heavy metal in groundwater and surface water of coastal south India. Journal of Hazardous Materials, 2021, 402, 123786.	12.4	198
2	Monitoring and assessment of heavy metal contamination in surface water and sediment of the Old Brahmaputra River, Bangladesh. Applied Water Science, 2019, 9, 1.	5.6	106
3	Imprints of pandemic lockdown on subsurface water quality in the coastal industrial city of Tuticorin, South India: A revival perspective. Science of the Total Environment, 2020, 738, 139848.	8.0	92
4	SARS-CoV-2 pandemic lockdown: Effects on air quality in the industrialized Gujarat state of India. Science of the Total Environment, 2020, 737, 140391.	8.0	87
5	Microplastic presence in commercial marine sea salts: A baseline study along Tuticorin Coastal salt pan stations, Gulf of Mannar, South India. Marine Pollution Bulletin, 2020, 150, 110675.	5.0	80
6	Application of remote sensing and GIS for delineating groundwater recharge potential zones of Kovilpatti Municipality, Tamil Nadu using IF technique. Earth Science Informatics, 2016, 9, 137-150.	3.2	79
7	Remote Sensing and GIS Based Groundwater Potential Zone Mapping in Ariyalur District, Tamil Nadu. Journal of the Geological Society of India, 2018, 92, 484-490.	1.1	79
8	Application of remote sensing and GIS analysis for identifying groundwater potential zone in parts of Kodaikanal Taluk, South India. Frontiers of Earth Science, 2013, 7, 65-75.	2.1	70
9	Accessing groundwater quality in lower part of Nagapattinam district, Southern India: using hydrogeochemistry and GIS interpolation techniques. Applied Water Science, 2015, 5, 39-55.	5.6	59
10	A GIS-based assessment of water quality pollution indices for heavy metal contamination in Tuticorin Corporation, Tamilnadu, India. Arabian Journal of Geosciences, 2015, 8, 10611-10623.	1.3	56
11	Factors controlling groundwater quality in the Yeonjegu District of Busan City, Korea, using the hydrogeochemical processes and fuzzy GIS. Environmental Science and Pollution Research, 2017, 24, 23679-23693.	5.3	52
12	Assessment and Distribution of Metals Contamination in Groundwater: a Case Study of Busan City, Korea. Water Quality, Exposure, and Health, 2015, 7, 219-225.	1.5	50
13	Influence of hydrogeochemical processes and assessment of suitability for groundwater uses in Busan City, Korea. Environment, Development and Sustainability, 2015, 17, 423-441.	5.0	47
14	Environmental contamination by heavy metals and associated human health risk assessment: a case study of surface water in Gomti River Basin, India. Environmental Science and Pollution Research, 2021, 28, 56105-56116.	5.3	45
15	Microplastics and trace metals in fish species of the Gulf of Mannar (Indian Ocean) and evaluation of human health. Environmental Pollution, 2021, 291, 118089.	7.5	45
16	Identification of groundwater contamination sources in Dindugal district of Tamil Nadu, India using GIS and multivariate statistical analyses. Arabian Journal of Geosciences, 2016, 9, 1.	1.3	43
17	Geostatistical techniques to evaluate groundwater contamination and its sources in Miryang City, Korea. Environmental Earth Sciences, 2016, 75, 1.	2.7	42
18	A review of heavy metals accumulation pathways, sources and management in soils. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	42

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19	Evaluation of hydrogeochemical parameters and quality assessment of the groundwater in Kottur blocks, Tiruvarur district, Tamilnadu, India. Arabian Journal of Geosciences, 2013, 6, 101-108.	1.3	41
20	Evaluation of geochemical behavior and heavy metal distribution of sediments: The case study of the Tirumalairajan river estuary, southeast coast of India. International Journal of Sediment Research, 2015, 30, 28-38.	3.5	38
21	An Introduction to Various Spatial Analysis Techniques. , 2019, , 23-30.		38
22	Comprehensive studies of hydrogeochemical processes and quality status of groundwater with tools of cluster, grouping analysis, and fuzzy set method using GIS platform: a case study of Dalcheon in Ulsan City, Korea. Environmental Science and Pollution Research, 2015, 22, 11209-11223.	5.3	37
23	Comparative study of machine learning models for evaluating groundwater vulnerability to nitrate contamination. Ecotoxicology and Environmental Safety, 2022, 229, 113061.	6.0	37
24	Heavy metal distribution in surface sediments of the Tirumalairajan river estuary and the surrounding coastal area, east coast of India. Arabian Journal of Geosciences, 2014, 7, 123-130.	1.3	35
25	Evaluation of physico-chemical parameters in water and total heavy metals in sediments at Nakdong River Basin, Korea. Environmental Earth Sciences, 2016, 75, 1.	2.7	35
26	Geochemical Appraisal of Groundwater Quality in Ottapidaram Taluk, Thoothukudi District, Tamil Nadu using Graphical and Numerical Method. Journal of the Geological Society of India, 2018, 92, 313-320.	1.1	35
27	Assessment of heavy metal and bacterial pollution in coastal aquifers from SIPCOT industrial zones, Gulf of Mannar, South Coast of Tamil Nadu, India. Applied Water Science, 2017, 7, 897-913.	5.6	32
28	Factors determining the hydrogeochemical processes occurring in shallow groundwater of coastal alluvial aquifer, India. Chemie Der Erde, 2020, 80, 125623.	2.0	32
29	Groundwater pollution index (GPI) and GIS-based appraisal of groundwater quality for drinking and irrigation in coastal aquifers of Tiruchendur, South India. Environmental Science and Pollution Research, 2021, 28, 29056-29074.	5.3	31
30	Application of GIS and hydrogeochemistry of groundwater pollution status of Nagapattinam district of Tamil Nadu, India. Environmental Earth Sciences, 2015, 73, 4429-4442.	2.7	29
31	Occurrence of Heavy Metals in Groundwater Along the Lithological Interface of K/T Boundary, Peninsular India: A Special Focus on Source, Geochemical Mobility and Health Risk. Archives of Environmental Contamination and Toxicology, 2021, 80, 183-207.	4.1	29
32	Assessment of groundwater quality using GIS and CCME WQI techniques: a case study of Thiruthuraipoondi city in Cauvery deltaic region, Tamil Nadu, India. Desalination and Water Treatment, 2016, 57, 12058-12073.	1.0	28
33	Processes and characteristics of hydrogeochemical variations between unconfined and confined aquifer systems: a case study of the Nakdong River Basin in Busan City, Korea. Environmental Science and Pollution Research, 2020, 27, 10087-10102.	5.3	27
34	Environmental monitoring and assessment of heavy metals in surface sediments at Coleroon River Estuary in Tamil Nadu, India. Environmental Monitoring and Assessment, 2015, 187, 505.	2.7	26
35	ANFIS-MOA models for the assessment of groundwater contamination vulnerability in a nitrate contaminated area. Journal of Environmental Management, 2021, 286, 112162.	7.8	26
36	Identification of groundwater potential zones using geospatial approach in Sivagangai district, South India. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	26

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37	Human health risk assessment of heavy metal and pathogenic contamination in surface water of the Punnakayal estuary, South India. Chemosphere, 2022, 298, 134027.	8.2	26
38	Geochemical characteristics and evaluation of minor and trace elements pollution in groundwater of Tuticorin city, Tamil Nadu, India using geospatial techniques. Journal of the Geological Society of India, 2017, 90, 62-68.	1.1	23
39	Quantification of submarine groundwater discharge (SGD) using radon, radium tracers and nutrient inputs in Punnakayal, south coast of India. Geoscience Frontiers, 2021, 12, 29-38.	8.4	23
40	Plastics in marine ecosystem: A review of their sources and pollution conduits. Regional Studies in Marine Science, 2021, 41, 101539.	0.7	23
41	Modeling of aquifer vulnerability index using deep learning neural networks coupling with optimization algorithms. Environmental Science and Pollution Research, 2021, 28, 57030-57045.	5.3	23
42	Contamination levels and ecological risk of heavy metals in sediments from the tidal river Halda, Bangladesh. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	23
43	Seasonal behavior and accumulation of some toxic metals in commercial fishes from Kirtankhola tidal river of Bangladesh â€" A health risk taxation. Chemosphere, 2022, 301, 134660.	8.2	23
44	Causes of heavy metal contamination in groundwater of Tuticorin industrial block, Tamil Nadu, India. Environmental Science and Pollution Research, 2021, 28, 18651-18666.	5.3	21
45	Distribution of grain size, clay mineralogy and organic matter of surface sediments from Tirumalairajanar Estuary, Tamilnadu, east coast of India. Arabian Journal of Geosciences, 2013, 6, 1371-1380.	1.3	20
46	Seasonal changes in groundwater quality deterioration and chemometric analysis of pollution source identification in South India. Environmental Science and Pollution Research, 2020, 27, 20037-20054.	5.3	20
47	Assessment of groundwater from an industrial coastal area of south India for human health risk from consumption and irrigation suitability. Environmental Research, 2021, 200, 111461.	7.5	20
48	Groundwater quality assessment for irrigation by adopting new suitability plot and spatial analysis based on fuzzy logic technique. Environmental Research, 2022, 204, 111729.	7.5	20
49	Identification and characterization of tsunami deposits off southeast coast of India from the 2004 Indian Ocean tsunami: Rock magnetic and geochemical approach. Journal of Earth System Science, 2014, 123, 905-921.	1.3	19
50	Variations of water quality deterioration based on GIS techniques in surface and groundwater resources in and around Vembanad Lake, Kerala, India. Chemie Der Erde, 2020, 80, 125626.	2.0	19
51	Variations in texture of beach sediments in the vicinity of the Tirumalairajanar river mouth of India. International Journal of Sediment Research, 2011, 26, 460-470.	3.5	18
52	Speciation of selected heavy metals geochemistry in surface sediments from Tirumalairajan river estuary, east coast of India. Environmental Monitoring and Assessment, 2013, 185, 6563-6578.	2.7	18
53	An assessment of selected hydrochemical parameter trend of the Nakdong River water in South Korea, using time series analyses and PCA. Environmental Monitoring and Assessment, 2015, 187, 4192.	2.7	18
54	Influence of variations in rainfall pattern on the hydrogeochemistry of coastal groundwaterâ€"an outcome of periodic observation. Environmental Science and Pollution Research, 2019, 26, 29173-29190.	5.3	18

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55	Hydrogeochemical processes controlling the groundwater salinity in the coastal aquifers of Southern Tamil Nadu, India. Marine Pollution Bulletin, 2022, 174, 113264.	5.0	17
56	Characteristics of microplastics in the beach sediments of Marina tourist beach, Chennai, India. Marine Pollution Bulletin, 2022, 176, 113409.	5.0	17
57	A study of health risk from accumulation of metals in commercial edible fish species at Tuticorin coasts of southern India. Estuarine, Coastal and Shelf Science, 2020, 245, 106929.	2.1	16
58	Identification of sources and groundwater recharge zones from hydrochemistry and stable isotopes of an agriculture-based paleo-lacustrine basin of drought-prone northeast Mexico. Chemie Der Erde, 2021, 81, 125742.	2.0	16
59	Identification of saline water intrusion in part of Cauvery deltaic region, Tamil Nadu, Southern India: using GIS and VES methods. Marine Geophysical Researches, 2016, 37, 113-126.	1.2	15
60	Remote sensing for recognition and monitoring of vegetation affected by soil properties. Journal of the Geological Society of India, 2017, 90, 609-615.	1.1	15
61	Ecological risk assessment of selected heavy metals in the surface sediments of three estuaries in the southeastern coast of India. Environmental Earth Sciences, 2018, 77, 1.	2.7	15
62	Formulating Convolutional Neural Network for mapping total aquifer vulnerability to pollution. Environmental Pollution, 2022, 304, 119208.	7.5	15
63	Distribution and Accumulation of Metals in the Surface Sediments of Coleroon River Estuary, East Coast of India. Bulletin of Environmental Contamination and Toxicology, 2012, 88, 413-417.	2.7	14
64	Lithofacies modeling of Late Jurassic in upper Ulayyah reservoir unit at central Saudi Arabia with inference of reservoir characterization. Journal of Petroleum Science and Engineering, 2020, 185, 106664.	4.2	14
65	Supplement of Missing Data in Groundwater-Level Variations of Peak Type Using Geostatistical Methods. , 2019, , 33-41.		13
66	Environmental assessment of water and soil contamination in Rajakhali Canal of Karnaphuli River (Bangladesh) impacted by anthropogenic influences: a preliminary case study. Applied Water Science, 2017, 7, 997-1010.	5.6	12
67	Time series analyses of hydrological parameter variations and their correlations at a coastal area in Busan, South Korea. Hydrogeology Journal, 2018, 26, 1875-1885.	2.1	12
68	Source and remediation for heavy metals of soils at an iron mine of Ulsan City, Korea. Arabian Journal of Geosciences, 2018, 11, 1.	1.3	11
69	Elemental geochemistry of surface sediments from Manakudy estuary, southâ€west coast of India: Inferences to sources of elements and their accumulation. Geological Journal, 2021, 56, 2360-2378.	1.3	11
70	Interrelationship between geochemical elements of sediment and groundwater at Samrak Park Delta of Nakdong River Basin in Korea: multivariate statistical analyses and artificial neural network approaches. Environmental Earth Sciences, 2017, 76, 1.	2.7	10
71	Microbial contamination and its associations with major ions in shallow groundwater along coastal Tamil Nadu. Environmental Geochemistry and Health, 2021, 43, 1069-1088.	3.4	10
72	Mobilization and health risk assessment of fertilizer induced uranium in coastal groundwater. Environmental Research, 2022, 203, 111791.	7.5	10

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73	An investigation to human health risks from multiple contaminants and multiple origins by introducing â€˜Total Information Managementâ€™. Environmental Science and Pollution Research, 2021, 28, 18702-18724.	5.3	9
74	Delineating saline and fresh water aquifers in Tuticorin of southern India by using geophysical techniques. Environment, Development and Sustainability, 2021, 23, 17723.	5.0	8
75	Health Risk Implication and Spatial Distribution of Radon in Groundwater Along the Lithological Contact in South India. Archives of Environmental Contamination and Toxicology, 2021, 80, 308-318.	4.1	8
76	Measurement of submarine groundwater discharge (SGD) into Tiruchendur coast at southeast India using 222Rn as a naturally occurring tracer. Marine Pollution Bulletin, 2022, 174, 113233.	5.0	8
77	Grain size trend and hydrodynamic condition of tirumalairajan River estuary, east coast of India. Oceanology, 2014, 54, 532-540.	1.2	7
78	An Integrated Novel Approach to Understand the Process of Groundwater Recharge in Mountain and Riparian Zone Aquifer System of Tamil Nadu, India. Aquatic Geochemistry, 2019, 25, 137-159.	1.3	7
79	Evaluation of Vulnerability Zone of a Coastal Aquifer Through GALDIT GIS Index Techniques. , 2019, , 209-221.		7
80	Hydro-geochemistry-based appraisal of summer-season groundwater from three different semi-arid basins of northeast Mexico for drinking and irrigation. Environmental Earth Sciences, 2021, 80, 1.	2.7	7
81	SARS-CoV-2 phase I transmission and mutability linked to the interplay of climatic variables: a global observation on the pandemic spread. Environmental Science and Pollution Research, 2022, 29, 72366-72383.	5.3	7
82	Application of Statistical Analysis for the Hydrogeochemistry of Saline Groundwater in Kodiakarai, Tamilnadu, India. Journal of Coastal Research, 2012, 278, 89-98.	0.3	6
83	The sedimentology and development of a modern sandspit (Miankaleh Peninsula) and a lacustrine lagoon (Gorgan Bay), Caspian Sea, Iran. Marine Geology, 2019, 415, 105974.	2.1	6
84	A Statistical Approach to Identify the Temporal and Spatial Variations in the Geochemical Process of a Coastal Aquifer, South East Coast of India. , 2019, , 223-235.		6
85	Groundwater decrease and contamination around subway tunnels in a coastal area of Busan City, Korea. Environmental Earth Sciences, 2021, 80, 1.	2.7	6
86	Site selection of check dams using geospatial techniques in Debre Berhan region, Ethiopia â€" water management perspective. Environmental Science and Pollution Research, 2022, 29, 72312-72331.	5.3	6
87	Morphological characteristics of Tirumalairajan river, East Coast of Indiaâ€"a GIS approach. Arabian Journal of Geosciences, 2013, 6, 1871-1881.	1.3	5
88	Fundamentals of GIS. , 2019, , 3-15.		5
89	Source, mobilization and distribution of uranium in a complex aquifer system: a spatial and temporal evaluation using geochemical, statistics and GIS approach. Environmental Earth Sciences, 2022, 81, 1.	2.7	5
90	Evaluation of Heavy-Metal Contamination in Groundwater using Hydrogeochemical and Multivariate statistical Analyses. , 2019, , 331-346.		4

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91	Hydrochemical analysis of seawater intrusion by graphical techniques in coastal aquifers to delineate vulnerable areas. , 2022, , 91-104.		4
92	Geoinformatics and geophysical survey-based estimation of best groundwater potential sites through surface and subsurface indicators. Arabian Journal of Geosciences, 2020, 13, 1.	1.3	3
93	The Characteristics of Hydrogeological Parameters of Unconsolidated Sediments in the Nakdong River Delta of Busan City, Korea. Journal of Soil and Groundwater Environment, 2017, 22, 27-41.	0.1	3
94	Hydrogeochemical Survey along the Northern Coastal Region of Ramanathapuram District, Tamilnadu, India. Applied Sciences (Switzerland), 2022, 12, 5595.	2.5	3
95	Geoelectrical Investigation Along Miri Coast, East Malaysia: Evaluate the Vulnerability of Coastal Aquifer. IOP Conference Series: Materials Science and Engineering, 0, 495, 012042.	0.6	2
96	Recent environmental geochemical trends in water and sediments—a framework on OSPRC. Environmental Science and Pollution Research, 2021, 28, 18421-18422.	5.3	1
97	Distribution Patterns of Inner Shelf Benthic Foraminifera and Their Relationship to Climatic Conditions in Northeastern Tamil Nadu, India. Journal of Climate Change, 2022, 8, 9-35.	0.5	1
98	GIS-based evaluation of groundwater quality and seawater intrusion assessment in a Coastal Region of Tiruchendur Taluk, Southern Tamil Nadu, India. , 2022, , 155-168.		1
99	EVALUATION OF GROUNDWATER CONTAMINATION USING GEOCHEMICAL ANALYSES AND FUZZY TECHNIQUE. , 2017, , .		0
100	Micropaleontological Assemblages on December-2004 Tsunamigenic Sediments Record of Climate Variation Between Cuddalore and Nagapattinam, East Coast of India. Journal of Climate Change, 2021, 7, 71-86.	0.5	0
101	Geochemical assessment of high salinity in groundwater along Ramanathapuram Coast, Southern Tamil Nadu. , 2022, , 213-231.		0
102	GIS and remote sensing based NRCS-CN runoff modeling techniques in coastal Cauvery deltaic region, India. , 2022, , 201-211.		0
103	Application of SVR-kernel models for nitrate contamination vulnerability assessment in the shallow aquifer of Miryang City, Korea. , 2022, , 55-70.		0
104	Issues of coastal groundwater contamination. , 2022, , 9-18.		0